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	Application No.	Applicant(s)	J.
Notice of Allowability	10/807,398	NISHIMURA ET AL.	
	Examiner	Art Unit	
	Robert R. Koehler	1775	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in this ap 35) or other appropriate communication RIGHTS. This application is subject t	pplication. If not include	ed
1. This communication is responsive to the Preliminary Am	nendment filed on March 24, 2004.		
2. 🔀 The allowed claim(s) is/are <u>1-28</u> .			
3. X The drawings filed on 24 March 2004 are accepted by the	ne Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application No		ion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to file a reply NMENT of this application.	complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi	omitted. Note the attached EXAMINER ives reason(s) why the oath or declara	'S AMENDMENT or NO	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examined Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	erson's Patent Drawing Review(PTO- —· er's Amendment / Comment or in the C 1.84(c)) should be written on the drawin the header according to 37 CFR 1.121(a	Office action of ngs in the front (not the l	
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	oosit of BIOLOGICAL MATERIAL n T FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. No AL MATERIAL.	ote the
Attachment(s)			
Notice of References Cited (PTO-892)	5. Notice of Informal Page	atent Application (PTO.	-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		• • • • • • • • • • • • • • • • • • • •	,
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB	Paper No./Mail Date	ė	
Paper No./Mail Date <u>06282004</u>		nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		nt of Reasons for Allow	ance
of Biological Material	9. 🗌 Other	20-to Wall	n->
		obet R. Koch	
		ROBERT R. KOEHLEI PRIMARY EXAMINEI	
		ART UNIT 1775	

Application/Control Number: 10/807,398

Art Unit: 1775

DETAILED ACTION

Allowable Subject Matter

Claims 1 to 28 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art search has not produced any references which teach, suggest, or disclose an aluminum alloy brazing sheet having the required structure comprising an aluminum alloy core material containing a magnesium content and at least one Al-Si-base cladding layer adjacent to the core material which must contain magnesium wherein the aluminum alloy brazing sheet must be manufactured in the form of a hollow structure. Also, the prior art does not teach, suggest, or disclose applicants' claimed method of brazing aluminum or aluminum alloy materials using a brazing sheet comprising an aluminum or aluminum alloy core which is clad with a filler alloy layer on at least one side of the core and containing magnesium at least in a layer constituting the brazing sheet other than the filler alloy layer wherein the brazing sheet is manufactured in the form of a hollow structure and the brazing operation is carried out by brazing on the inside of the formed hollow structure without applying flux in an inert gas atmosphere. Also, the prior art does not teach, suggest, or disclose applicants' claimed aluminum alloy brazing sheet having a structure of at least four layers positioned in the sequence of filler alloy, diffusion prevention layer, core material, and filler alloy wherein the core material must contain 0.2 to 1.5 weight percent magnesium. The Examiner cites U.S. Patent No. 5,069,980 (Namba, et al.) as relevant prior art. Namba, et al. teaches a vacuum-brazing aluminum cladding material consisting of a core member and a first and a second cladding which cover at least one surface of the core member. Namba, et al. does not teach or reasonably suggest an aluminum alloy brazing sheet having an aluminum alloy core material that must contain magnesium as claimed by the applicants. The Examiner believes that Namba, et al. teaches aluminum alloy brazing sheet structures having only prescribed amounts of magnesium in the first and second cladding layers, Application/Control Number: 10/807,398

Art Unit: 1775

and the absence of any teaching or suggestion that would require magnesium in the core material causes the patent to be focused on obtaining improved brazing performance by using two magnesium-containing cladding layers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Robert Koehler whose telephone number is **(571) 272-1536**. The Examiner can normally be reached on Tuesday to Friday from 9:30 AM to 7:00 PM. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on **(571) 272-1535**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1775

ROBERT R. KOEHLER PRIMARY EXAMINER

Art Unit 1775 November 19, 2004